ABSTRACT

An object of the present invention is to provide a neutron shielding material that exhibits high heat resistance and has ensured neutron shielding capability.

Provided is a neutron shielding material composition that exhibits excellent heat resistance and has ensured neutron shielding capability, the composition comprising a hydrogenated bisphenol epoxy represented by a structural formula (1):

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$$\begin{array}{c} CH_2-CH-CH_2-O \longrightarrow \begin{pmatrix} R_1 \\ C \\ R_2 \end{pmatrix} \longrightarrow \begin{pmatrix} CH_2-CH-CH_2 \\ R_4 \end{pmatrix} \longrightarrow \begin{pmatrix} CH_2-CH-CH_2 \\ C \\ R_4 \end{pmatrix} \longrightarrow \begin{pmatrix} CH_2-CH-CH_2 \\ C \\ C \\ C \\ C \end{pmatrix}$$

wherein R₁ to R₄ independently selected from the group consisting of CH₃, H, F, Cl and Br, and n is from 0 to 2; a curing agent component having at least one ring structure and a plurality of amino groups; a density-increasing agent; and a boron compound.